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**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for nonprovisional applications under 37 CFR § 1.53(b))

Attorney Docket No.

501130.02

January 7, 2004

First Inventor or Application Identifier

Donald M. Morgan et al.

Title

**METHOD AND SYSTEM FOR LOW POWER REFRESH
OF DYNAMIC RANDOM ACCESS MEMORIES**

Express Mail Label No.

EL 646074006 US

USPTO
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FEE TRANSMITTAL SHEET (FOR FY 2004)

Complete if Known	
Express Mail No.	EL 646074006 US
Filing Date	Concurrently Herewith
First Named Inventor	Donald M. Morgan et al.
Group Art Unit	Not Yet Assigned
Examiner	Not Yet Assigned
Atty. Docket Number	501130.02

METHOD OF PAYMENT (Check One)

1. The Commissioner is hereby authorized to charge any additional fee required under 37 C.F.R. §§ 1.16 and 1.17 and 1.136(a)(3) and credit any over payments to Deposit Account No.: 50-1266; Deposit Account Name: DORSEY & WHITNEY LLP

2. Check Enclosed

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Subtotal (1)
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	770	2001	385	<input checked="" type="checkbox"/> Utility Filing Fee	
1002	340	2002	170	<input type="checkbox"/> Design Filing Fee	
1003	530	2003	265	<input type="checkbox"/> Plant Filing Fee	
1004	770	2004	385	<input type="checkbox"/> Reissue Filing Fee	
1005	160	2005	80	<input type="checkbox"/> Provisional Filing Fee	
Subtotal (1)					\$770

2. EXTRA CLAIM FEES

Current Claims	Prior	Extra	Fee	Fee Paid
Total	13	-	20	= 0 x \$18 = \$0
Ind.	3	-	3	= 0 x \$86 = \$0
Multiple Dependent Claims			x \$	= \$
				Subtotal (2)
				\$0

Large Entity		Small Entity		Fee Description	Subtotal (2)
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1202	18	2202	9	Claims in excess of 20	
1201	86	2201	43	Independent claims in excess of 3	
1203	290	2203	145	Multiple dependent Claim	
1204	86	2204	43	Reissue independent claims over original patent	
1205	18	2205	9	Reissue claims in excess of 20 and over original patent	
Subtotal (2)					\$0

3. ADDITIONAL FEES

Large Entity	Small Entity				
Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee paid
1051	130	2051	65	Surcharge - Late filing fee or oath	\$
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	\$
1053	130	1053	130	Non-English specification	\$
1812	2,520	1812	2,520	For Filing a Request for ex parte Reexamination	\$
1804	920	1804	920	Requesting publication of SIR prior to Examiner action	\$
1805	1,840	1805	1,840	Requesting publication of SIR after Examiner action	\$
1251	110	2251	55	Extension for reply within first month	\$
1252	420	2252	210	Extension for reply within 2 nd month	\$
1253	950	2253	475	Extension for reply within 3 rd month	\$
1254	1,480	2254	740	Extension for reply within 4 th month	\$
1255	2,010	2255	1,005	Extension for reply within 5 th month	\$
1401	330	2401	165	Notice of Appeal	\$
1402	330	2402	165	Filing a brief in support of an appeal	\$
1403	290	2403	145	Request for oral hearing	\$
1814	110	2814	55	Terminal Disclaimer Fee	\$
1452	110	2452	55	Petition to revive – unavoidable	\$
1453	1,330	2453	665	Petition to revive – unintentional	\$
1501	1,330	2501	665	Utility/Reissue issue fee	\$
1502	480	2502	240	Design issue fee	\$
1503	640	2503	320	Plant issue fee	\$
1460	130	1460	130	Petitions to the Commissioner	\$
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	\$
1806	180	1806	180	Submission of IDS	\$
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	\$
1801	770	2801	385	Request for Continued Examination (RCE)	\$
Other fee (specify)					
Subtotal (3)					\$0

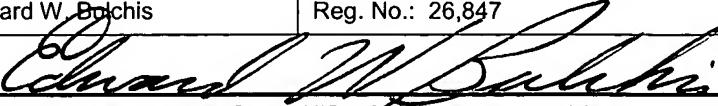
Total Amount of Payment: **\$770**

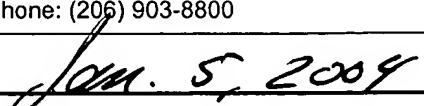
Submitted by:

Name: Edward W. Bulchis

Reg. No.: 26,847

Telephone: (206) 903-8800

Signature: 

Date: 

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Donald M. Morgan and Greg A. Attorney Docket No.: 501130.02
Blodgett

Filed : January 7, 2004

Title : METHOD AND SYSTEM FOR LOW POWER REFRESH OF DYNAMIC
RANDOM ACCESS MEMORIES

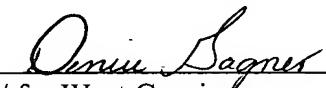
CERTIFICATE OF MAILING BY "EXPRESS MAIL"

MAIL STOP PATENT APPLICATION
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

I hereby certify that the enclosures listed below are being deposited with the United States Postal Service "EXPRESS MAIL Post Office to Addressee" service under 37 C.F.R. § 1.10, Mailing Label Certificate No. EL 646074006 US, on January 7, 2004, addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Respectfully submitted,
DORSEY & WHITNEY LLP



/ for West Courier

EWB:dms

Enclosures:

Postcard
Check
PTO/SB/05 Utility Patent Application Transmittal
Application Data Sheet
Fee Transmittal Sheet (+ copy)
General Authorization
Preliminary Amendment
Specification, Claims, Abstract (35 pages)
10 Sheets of Drawings (Figures 1-10)
Copy of Declaration
Copy of Election and Power of Attorney
Information Disclosure Statement
Form PTO-1449

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Donald M. Morgan and Greg A. Attorney Docket No.: 501130.02
Blodgett

Filed : Concurrently herewith

Title : METHOD AND SYSTEM FOR LOW POWER REFRESH OF DYNAMIC
RANDOM ACCESS MEMORIES

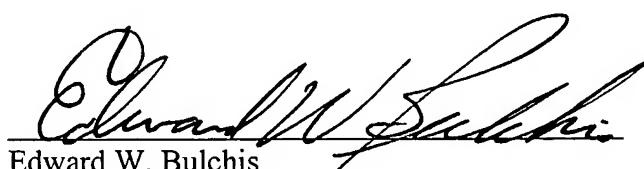
GENERAL AUTHORIZATION

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

With respect to the above-identified application, the Commissioner is authorized to charge any fees under 37 C.F.R. §§ 1.16 and 1.17 which may be required and to treat any concurrent or future reply requiring a petition for an extension of time under 37 C.F.R. § 1.136(a)(3) for its timely submission as incorporating a petition therefor for the appropriate length of time and to charge any fees which may be required during the course of prosecution, or credit any overpayment, to Deposit Account No. 50-1266.

Date Jan. 5, 2004


Edward W. Bulchis
Registration No. 26,847

EWB:dms

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